Product Name: KD-Validated Non-SMC Condensin I Complex Subunit D2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01015
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 157.2kDa

Antigen Information

Gene Name	NCAPD2
Alternative Names	Non-SMC Condensin I Complex Subunit D2; HCAP-D2; CNAP1; KIAA0159; CAP-D2; Chromosome Condensation-Related SMC-Associated Protein 1; Chromosome-Associated Protein D2; Condensin Complex Subunit 1; XCAP-D2 Homolog; Chromosome Condensation Related SMC Associated Protein 1; Non-SMC Condensin I Complex, Subunit D2; MCPH21; CAPD2
Gene ID	9918.0
SwissProt ID	Q15021
Immunogen	A synthesized peptide derived from human CNAP1

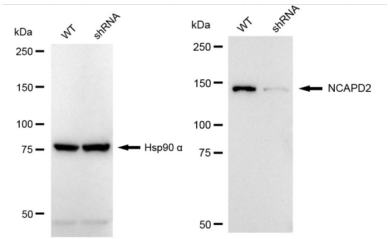
Background

Enables histone binding activity. Involved in mitotic chromosome condensation and positive regulation of chromosome condensation. Located in several cellular components, including condensed chromosome; microtubule organizing center; and nuclear lumen. Part of condensin complex. Implicated in primary autosomal recessive microcephaly 21. [provided by Alliance of Genome Resources, Jul 2025]

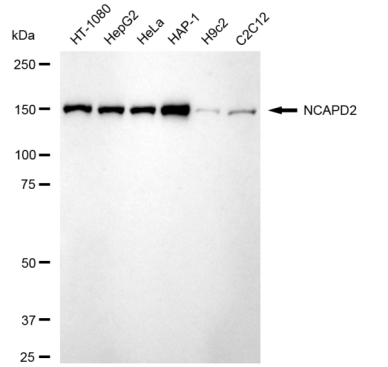
Research Area

Cell Biology,Epigenetics and Nuclear Signaling

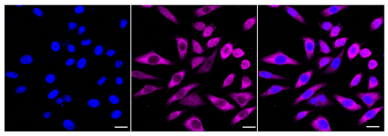
Image Data



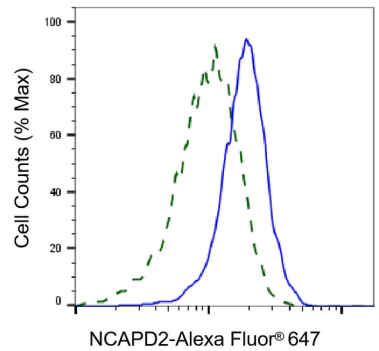
Western blotting analysis using NCAPD2 antibody (KVAb01015). NCAPD2 expression in wild type (WT) and NCAPD2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NCAPD2 antibody (KVAb01015, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



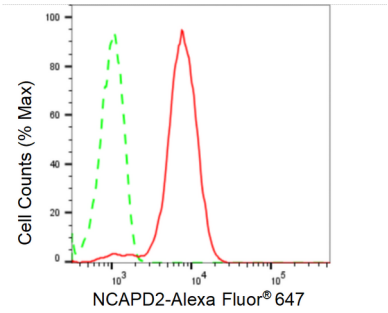
Western blotting analysis using NCAPD2 antibody (KVAb01015). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NCAPD2 antibody (KVAb01015, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with NCAPD2 antibody (KVAb01015, 1:1,000). Nuclei were stained blue with DAPI; NCAPD2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of NCAPD2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NCAPD2 antibody (KVAb01015, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NCAPD2 expression in HepG2 cells using NCAPD2 antibody (KVAb01015, 1:2,000). Green, isotype control; red, NCAPD2.